



10.0 Bibliography

- Andersen, Terje and Asbjorn Misund. "Pipeline Reliability: An Investigation of Pipeline Failure Characteristics and Analysis of Pipeline Failure Rates For Submarine and Cross Country Pipelines." Journal of Petroleum Technology. April 1983, 709-717.
- Eiber, R. J. , D. J. Jones and G. S. Kramer. "Outside Force Causes Most Natural Gas Pipeline Failures." Oil and Gas Journal, March 16, 1987, pp. 52-57.
- Jones, Dana J., et. al. An Analysis of Reportable Incidents for Natural Gas Transmission and Gathering Lines 1970 through June 1984. American Gas Association, March 1986.
- Jones, Dana J. and R. J. Eiber. An Analysis of Reportable Incidents for Natural Gas Transmission and Gathering Lines June 1984 through 1989. American Gas Association, October 1990.
- Lyons, D., et. al. Performance of Oil Industry Cross Country Pipelines in Western Europe. Statistical Summary of Reported Spillages - 1981 through 1989. Brussels: CONCAWE.
- Martinsen, W. E. and J. B. Cornwell. "Use and Misuse of Historical Pipeline Failure Rate Data." Proceedings of the 1991 Pipeline Risk Assessment, Rehabilitation and Repair Conference, Gulf Publishing, 1991.
- National Science Foundation. Early Post-Earthquake Damage Detection for Underground Lifelines.
- National Transportation Safety Board. Special Study of Effects of Delay in Shutting Down Failed Pipeline Systems and Methods of Providing Rapid Shutdown. December 1970.
- National Transportation Safety Board. Pipeline Accident Report, Four Corners Pipe Line Company Pipeline Rupture and Fire, Long Beach, California, December 1, 1980. August 1981.
- National Transportation Safety Board. Railroad Accident Report, Derailment of Southern Pacific Transportation Company Freight Train on May 12, 1989 and Subsequent Rupture of Calnev Petroleum Pipeline on May 25, 1989 - San Bernardino, California. June 1990.
- O. Rourke, T., et. al. "Lifeline and Geotechnical Aspects of the 1989 Loma Prieta Earthquake." Proceedings of the 2nd International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, Saint Louis, Missouri. March 1991.



- Rusin, Michael. Pipeline Transport of Highly Volatile Liquids: A Cost-Benefit Analysis of Proposed Safety Regulation of Valve Spacing and Operation. Washington, D.C. American Petroleum Institute, 1979.
- Rusin, Michael and Evi Savvides-Gellerson. The Safety of Interstate Liquid Pipelines: An Evaluation of Present Levels and Proposals for Change, Research Study #040. Washington, D.C.: American Petroleum Institute, 1987.
- Tiratsoo, J. N. H, ed. Pipelines and the Environment. United Kingdom: Pipes and Pipelines International, 1984.
- Toppozada, T. "Earthquake Magnitude as a Function of Intensity Data in California and Western Nevada." Bulletin Seismological Society of America, Vol. 65, No. 5, (October 1975), pp 1223-38.
- Transportation Research Board, National Research Council. Special Report 219, Pipelines and Public Safety, Damage Prevention, Land Use, and Emergency Preparedness. 1988.
- U.S. Department of Transportation. An Examination of the Feasibility of Regulating Excavators. October 1990.
- U.S. Department of Transportation, Research and Special Programs Administration. Emergency Flow Restricting Devices Study. March 1991.
- U.S. Department of Transportation, Research and Special Programs Administration. Transportation Safety Information Report 1988 Annual Summary. December 1989.
- U.S. Department of Transportation, Research and Special Programs Administration. National Transportation Statistics - Annual Report. July 1990.
- U.S. Department of Transportation, Research and Special Programs Administration. Annual Report on Pipeline Safety - Calendar Years 1981 through 1990.
- U.S. Department of Transportation, Office of Pipeline Safety. Rapid Shutdown of Failed Pipeline Systems and Limiting of Pressure to Prevent Pipeline Failure Due To Overpressure. October 1974.
- U.S. Department of Transportation, Office of Pipeline Safety. Transportation of Highly Volatile, Toxic, or Corrosive Liquids By Pipeline. February 1976
- U.S. Geological Survey. United States Earthquakes, 1982 - U.S. Geological Survey Bulletin 1655. 1982.
- U.S. Geological Survey. Preliminary Isoseismal Map for the Santa Cruz (Loma Prieta), California Earthquake of October 18, 1989 - U.S. Geological Survey Open File Report 90-18. 1990.
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U.S. Geological Survey. The San Andreas Fault System, California - U.S. Geological Survey Professional Paper 1515.



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**Exhibit 1
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